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("GROUP BY" OR "GROUP BY") AND ("GRO

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[J Gray](#)

[H Pirahesh](#)

[A Bosworth](#)

[A Layman](#)

[S Chaudhuri](#)

**Data Cube: A Relational Aggregation Operator Generalizing Group-By, Cross-Tab, and Sub-Totals - all 61 versions »**

J Gray, S Chaudhuri, A Bosworth, A Layman, D ... - Data Mining and Knowledge Discovery, 1997 - Springer

... The **GROUP BY**, **ROLLUP**, and **CUBE** operators have an interesting algebra. The **CUBE** of a **ROLLUP** or **GROUP BY** is a **CUBE**. ... **CUBE(ROLLUP) = CUBE ROLLUP(GROUP BY) = ROLLUP ...**

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**Database system and method employing data cube operator for group-by operations - all 3 versions »**

R Agrawal, A Gupta, S Sarawagi - US Patent 5,832,475, 1998 - Google Patents

... A search lattice for a data **cube** is a graph, wherein (i) a vertex represents a **GROUP-BY** of the **cube**, and (ii) a directed edge connects **GROUP-BY** i to **GROUP-BY** j ...

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**Bottom-up computation of sparse and Iceberg CUBE - all 23 versions »**

K Beyer, R Ramakrishnan - ACM SIGMOD Record, 1999 - portal.acm.org

... implicitly) contain **HAVING COUNT(\*) >= N**. That is, the user is simply not interested in small **group-by** partitions. Iceberg-**CUBE** is not an entirely new problem ...

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**From Data Mining to Knowledge Discovery - all 4 versions »**

U Fayyad, G Piatetsky-Shapiro, P Smyth - Advances in Knowledge Discovery and Data Mining, 1996 - research.microsoft.com

... **Data Cube: A Relational Aggregation Operator Generalizing Group-by, Cross-Tab, and Sub Totals** Jim Gray, Microsoft Research, gray@microsoft.com Surajit Chaudhuri ...

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**Method and system for performing range max/min queries on a data cube - all 2 versions »**

R Agrawal, CT Ho, N Megiddo - US Patent 5,926,820, 1999 - Google Patents

... 5,926,820 Page 2 OTHER PUBLICATIONS J. Gray et al., **Data Cube: A relational aggregation**

operator generalizing **group-by**, cross-tabs and sub-totals. In Proc. ...

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**Data Cube: A Relational Aggregation Operator Generalizing Group-By, Cross-Tab, and Sub-Totals - all 3 versions »**

S CHAUDHURI, A BOSWORTH, DON REICHART, M VENKATRAO ... - Data Mining and Knowledge Discovery, 1997 - drona.csa.iisc.ernet.in

... Section 2 discusses why **GROUP BY** fails to adequately address the requirements. The **CUBE** and the **ROLLUP** operators are introduced in Section 3 ...

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### **CUBE with a reduced number of GROUP ... - all 3 versions »**

RJ Cochrane, MM Jou, G Lapis, MH Pirahesh - US Patent 5,963,936, 1999 - Google Patents  
... Method and apparatus for detecting and stacking **grouping sets** to support **GROUP BY**  
operations with **GROUPING SETS**, **ROLLUP** and **CUBE** extensions in relational data ...

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**[PS] Efficient Implementation of Data Cubes Via Materialized Views - all 3 versions »**

JD Ullman - Proc. Knowledge Discovery in Databases, 1996 - [infolab.stanford.edu](http://infolab.stanford.edu)

... Color Store Fig. 1. A 4-dimensional data **cube**. SELECT <grouped attributes>, SUM(<critical attribute>) FROM <the data **cube** relation> **GROUP BY** <some attributes> ...

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[CITATION] Data **cube**: A relational operator generalizing **group-by**, cross-tab, and roll-up

J Gray, A Bosworth, A Layman, H Pirahesh - Proc. International Conf. on Data Engineering.  
New Orleans: ..., 1996

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## The MD-join: an operator for complex OLAP - all 5 versions »

D Chatziantoniou, T Johnson, M Akinde, S Kim - Data Engineering, 2001. Proceedings. 17th International ..., 2001 - [ieeexplore.ieee.org](http://ieeexplore.ieee.org)

... is, (prod,ALL,state) is a **rollup** of the ... The **Grouping Sets** keyword [Cha96] allows

the following query ... sum(sa1e) From Sales **Group By Grouping Sets** ((prod), (month ...

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